

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P259140

Luminaire Tested: **14CZ-LD5-39-SQP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-39-SQP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2557.0 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

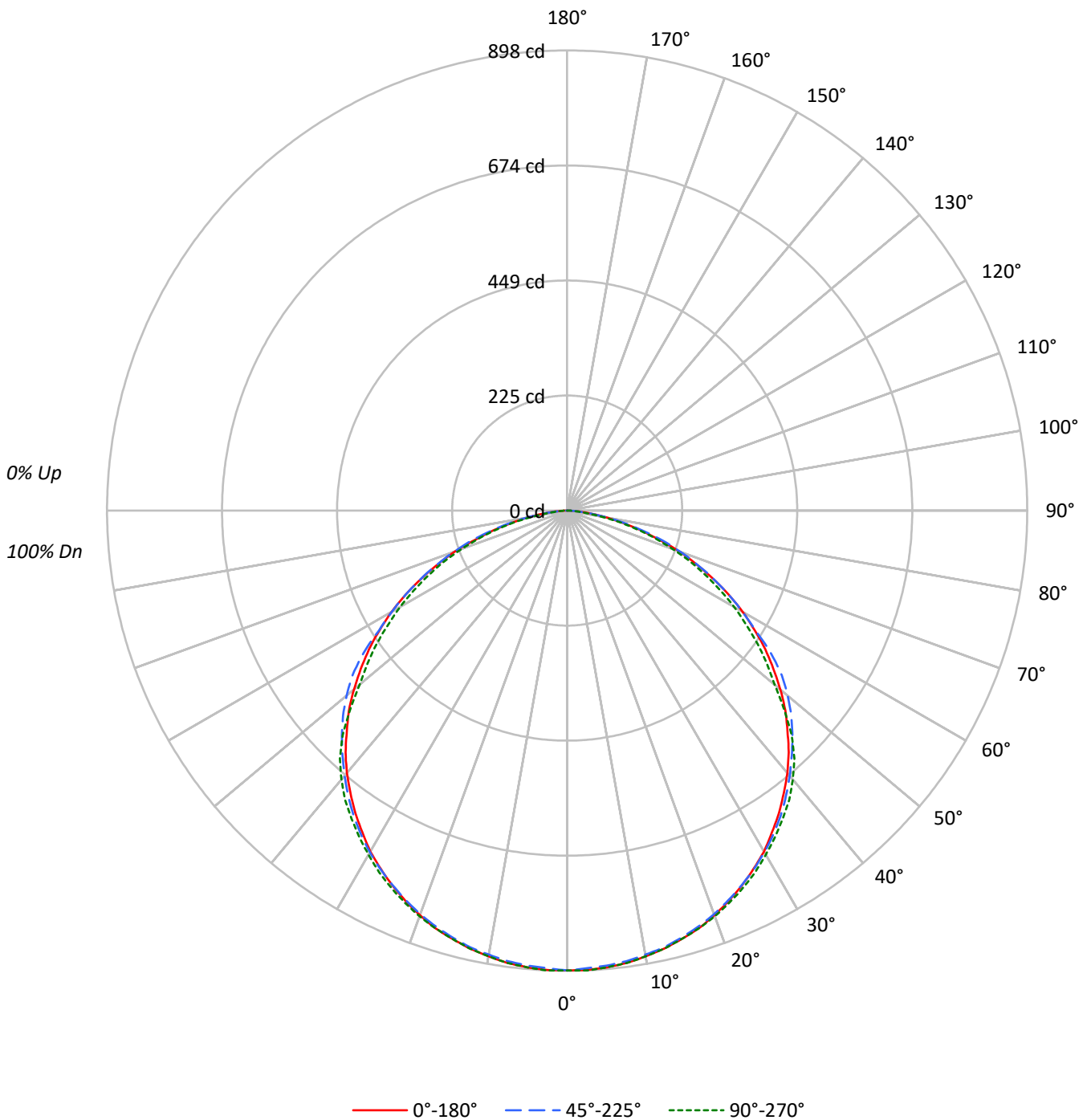
Input Watts (W): 31.527
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2415	2415	2415
5°	2417	2407	2417
10°	2414	2405	2414
15°	2410	2403	2410
20°	2406	2401	2413
25°	2397	2394	2412
30°	2387	2393	2409
35°	2367	2387	2410
40°	2349	2373	2407
45°	2314	2367	2357
50°	2274	2353	2212
55°	2214	2280	2129
60°	2130	2125	2028
65°	1996	2008	1897
70°	1833	1854	1718
75°	1540	1612	1468
80°	1221	1247	1034
85°	803	695	590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	3.3
10°-20°	244.2	9.6
20°-30°	372.9	14.6
30°-40°	455.0	17.8
40°-50°	475.8	18.6
50°-60°	421.2	16.5
60°-70°	310.2	12.1
70°-80°	160.6	6.3
80°-90°	32.0	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	702.2	27.5
0°-40°	1157.2	45.3
0°-60°	2054.2	80.3
0°-90°	2557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2557.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	895	895	891	895	895	85
15°	865	865	863	866	865	244
25°	807	807	806	812	812	372
35°	721	722	727	734	734	451
45°	608	613	622	627	619	469
55°	472	482	486	461	454	421
65°	314	333	315	303	298	311
75°	148	158	155	146	141	158
85°	26	28	22	20	19	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	897.3	897.3	897.3	897.3	897.3
2.5°	897.3	897.3	893.8	897.3	898.2
5°	894.7	894.7	891.2	894.7	894.7
7.5°	890.4	889.5	886.9	890.4	890.4
10°	883.4	883.4	880.0	884.3	883.4
12.5°	875.6	874.8	873.0	876.5	875.6
15°	865.2	865.2	862.7	866.1	865.2
17.5°	854.9	854.0	851.4	854.9	854.9
20°	840.1	839.3	838.4	841.9	842.7
22.5°	824.5	823.7	822.8	828.0	828.0
25°	807.2	807.2	806.4	811.6	812.4
27.5°	788.2	788.2	789.0	796.0	795.1
30°	768.2	768.2	770.0	775.2	775.2
32.5°	744.0	745.7	749.2	755.3	755.3
35°	720.6	722.3	726.7	733.6	733.6
37.5°	694.6	697.2	701.6	710.2	711.9
40°	668.6	670.4	675.6	685.1	685.1
42.5°	640.1	641.8	648.7	658.2	656.5
45°	608.0	613.2	621.9	627.1	619.3
47.5°	577.7	581.2	593.3	587.2	574.2
50°	543.1	550.0	562.1	540.5	528.3
52.5°	507.5	515.3	528.3	498.0	491.1
55°	472.0	481.6	485.9	460.8	453.8
57.5°	433.9	444.3	435.7	420.9	414.0
60°	395.8	407.9	394.9	381.1	376.8
62.5°	356.0	369.8	355.1	343.0	336.9
65°	313.5	332.6	315.3	303.1	297.9
67.5°	272.0	291.9	273.7	263.3	259.8
70°	233.0	244.2	235.6	225.2	218.3
72.5°	186.2	197.5	195.7	184.5	180.2
75°	148.1	158.5	155.0	145.5	141.2
77.5°	110.0	121.3	117.8	106.5	104.8
80°	78.8	86.6	80.5	70.2	66.7
82.5°	49.4	55.4	47.6	39.8	38.1
85°	26.0	27.7	22.5	19.9	19.1
87.5°	8.7	9.5	9.5	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)